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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/577,086	11/15/2006	Wolfgang Furtner	DE03 0361 US1	1180
65913	7590	08/03/2007	EXAMINER	
NXP, B.V. NXP INTELLECTUAL PROPERTY DEPARTMENT M/S41-SJ 1109 MCKAY DRIVE SAN JOSE, CA 95131			NGUYEN, KHAI M	
			ART UNIT	PAPER NUMBER
			2819	
			NOTIFICATION DATE	DELIVERY MODE
			08/03/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ip.department.us@nxp.com

Office Action Summary

Application No.

10/577,086

Applicant(s)

FURTNER, WOLFGANG

Examiner

Khai M. Nguyen

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 15 November 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-11 and 13 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 6-7, 10-11, 13 is/are allowed.
- 6) ☒ Claim(s) 1-5, 8 and 9 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 24 April 2006 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
- 1) ☒ Certified copies of the priority documents have been received.
 - 2) ☐ Certified copies of the priority documents have been received in Application No. _____.
 - 3) ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 4/24/2006
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

2. An initiated copy of the information disclosure statement (IDS) submitted on 4/24/2006 is attached herewith.

Specification

3. Specification is objected to because it contains claims (see, e.g., page 6).
Correction is required.
4. The continuation data should be added to first page of paragraph of the specification. Correction is required.
5. The application has not been checked to the extent necessary to determine the presence of all possible typographical and grammatical errors. However, Applicant's cooperation is requested in correcting any errors of which he/she may become aware in the application
6. The following guidelines illustrate the preferred layout for the specification of a utility application. These guidelines are suggested for the applicant's use.

Arrangement of the Specification

As provided in 37 CFR 1.77(b), the specification of a utility application should include the following sections in order. Each of the lettered items should appear in upper case, without underlining or bold type, as a section heading. If no text follows the section heading, the phrase "Not Applicable" should follow the section heading:

- (a) TITLE OF THE INVENTION.
- (b) CROSS-REFERENCE TO RELATED APPLICATIONS.
- (c) STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT.
- (d) THE NAMES OF THE PARTIES TO A JOINT RESEARCH AGREEMENT.
- (e) INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A COMPACT DISC.
- (f) BACKGROUND OF THE INVENTION.
 - (1) Field of the Invention.
 - (2) Description of Related Art including information disclosed under 37 CFR 1.97 and 1.98.
- (g) BRIEF SUMMARY OF THE INVENTION.
- (h) BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S).
- (i) DETAILED DESCRIPTION OF THE INVENTION.
- (j) CLAIM OR CLAIMS (commencing on a separate sheet).
- (k) ABSTRACT OF THE DISCLOSURE (commencing on a separate sheet).
- (l) SEQUENCE LISTING (See MPEP § 2424 and 37 CFR 1.821-1.825. A "Sequence Listing" is required on paper if the application discloses a nucleotide or amino acid sequence as defined in 37 CFR 1.821(a) and if the required "Sequence Listing" is not submitted as an electronic document on compact disc).

Drawings

7. Figures **3A-3B** and **4A-4B** should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Objections

8. Claim 6, line 8, is objected to because "ofa" – it should be changed to read --of a--
- Correction is required.
9. Claim 9 is objected to because "ofthe" – it should be changed to read --of the--
Correction is required.

"A method as claimed in..." and "A device as claimed..." should be changed to –
"The method of claim..." and "The device of claim...", respectively.

Claim Rejections - 35 USC § 102

10. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-5, 8, and 9 are rejected under 35 U.S.C. 102(b) as being anticipated by Horowitz et al. (US 7,142,612), hereinafter referred to as "Horowitz".

Regarding claim 1, the claimed invention is directed to Fig. 5, which is the same as Fig. 1 of Horowitz. Horowitz discloses a method for transmitting data units (data received on conductors IN1...IN4) by way of a transmission medium (106 of Fig. 1A) that comprises at least three adjacent transmission lines (104) the method having the following steps:

(a) supplying (by encoder 102 of Fig. 1A) a plurality of codes (4-PAM signals – col. 3, lines 38-67) each code comprising a number of code sections (Table 1) that corresponds to the number of transmission lines of the transmission medium (106), each code section of a code on an associated transmission line having a predetermined signal value (Table 1), and the sum of the signal values being substantially constant for each transmitted code (col. 4, lines 8-20);

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(b) for each data unit to be transmitted (by encoder/transmitter 102 of Fig. 1A), selection of a code from the plurality of codes (Table 1); and

(c) supplying the selected code for a transmission by way of the transmission medium (106).

Regarding claim 2, Horowitz discloses the method of claim 1, in which the data units (data received on conductors IN1...IN4) and the codes (output of encoder 102 or 152 of Fig. 1) to be transmitted are supplied in accordance with a predetermined clock pulse (CLK of Fig. 1) wherein in step (b) at each new clock pulse a new code is selected, based on the preceding code and the new data unit (Table 1).

Regarding claim 3, Horowitz discloses the method of claim 1, in which the code is a binary code, each of the codes comprising the same number of code sections with a high logic level and code sections with a low logic level (Table 1).

Regarding claim 4, Horowitz discloses the method of claim 1, in which a data unit comprises one bit or a plurality of bits (Table 1).

Regarding claim 5, Horowitz discloses the method of claim 1, in which, in which the sum of the signal values is substantially zero (col. 1, lines 10-15; col. 4, lines 1-20; and Table 1).

Regarding claim 8, Horowitz also discloses a decoder (110 or 164 of Fig. 1A, B, respectively) configured to receive, via 106, outputs of the encoder (102 or 152), assign the received codes to appropriate data units (108), and output the data units.

Regarding claim 9, Horowitz discloses the method of claim 8 including recovering of a clock signal (col. 7, lines 4-12) based on the transmissions of the codes transmitted by way of the transmission medium (106).

Allowable Subject Matter

11. Claims 6-7, 10-11, and 13 are allowed. The following is a statement of reasons for the indication of allowable subject matter: the references of record neither reveal nor render obvious the recited combination including the memory, in which a plurality of codes is stored, each code comprising a number of code sections that corresponds to the number of transmission lines of the transmission medium, each of section of a code on an associated transmission line having a predetermined signal value.

Prior Art

12. The prior art made of record and not relied upon is considered pertinent to applicant's disclose (notes: all references cited on PTO-892 Form attached herewith).

Contact Information

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13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khai M. Nguyen whose telephone number is 571-272-1809. The examiner can normally be reached on 9:00 - 5:30 Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rexford (Rex) Barnie can be reached on 571-272-7492. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



July 27, 2007

Khai M. Nguyen
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571-272-1809